

INTERNATIONAL SEARCH REPORT

International Application No
PC17/IB2004/052725

A. CLASSIFICATION <small>ATTORNI GÖPP KUNSTLEGECEIT WAAFTITELER</small> A61K41/00 A61K47/48 A61K49/00 A61K49/04 A61P35/00		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) A61K		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and where practical search terms used) EPO-Internal , WPI Data, CHEM ABS Data, INSPEC		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category ^o	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
Y	WO 01/86299 A (BAYER AKTIENGESELLSCHAFT; HOHEISEL, WERNER; PETRY, CHRISTOPH; HAASE, M) 15 November 2001 (2001-11-15) abstract * page 8, line 14 - page 12, line 20 * * page 13, line 15 - page 16, line 17 * * page 18, line 12 - page 19, line 14 * * page 19, line 30 - page 20, line 10 * examples 5-10,12 claims 1-28,32,33 <div style="text-align: center; margin-top: 20px;">----- -/-</div>	1,3-12
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C <input checked="" type="checkbox"/> Patent family members are listed in annex </div>		
<div style="display: flex;"> <div style="flex: 1;"> ^o Special categories of cited documents 'A' document defining the general state of the art which is not considered to be of particular relevance 'E' earlier document but published on or after the international filing date 'L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) 'O' document referring to an oral disclosure, use, exhibition or other means 'P' document published prior to the international filing date but later than the priority date claimed </div> <div style="flex: 1;"> 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance, the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance, the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art '&' document member of the same patent family </div> </div>		
Date of the actual completion of the international search <div style="text-align: center;">5 December 2005</div>		Date of mailing of the International search report <div style="text-align: center;">20/12/2005</div>
Name and mailing address of the ISA European Patent Office, P B 5818 Patentlaan 2 NL - 2260 HV Rijswijk Tel (+31-70) 340-2040, Tx 31 651 epo nl, Fax (+31-70) 340-3016		Authorized officer <div style="text-align: center;">villard, A-L</div>

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C(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>WISNIEWSKI D ET AL: "LuPO₄:Nd and YPO₄:Nd-new promising VUV scintillation materials"</p> <p>NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH, SECTION A (ACCELERATORS, SPECTROMETERS, DETECTORS AND ASSOCIATED EQUIPMENT) ELSEVIER NETHERLANDS, vol . 486, no. 1-2, 21 June 2002 (2002-06-21), pages 239-243, XP002356835</p> <p>ISSN: 0168-9002</p> <p>abstract</p> <p>figures 2,3</p> <p>table 1</p>	1-25
Y	<p>KACZMAREK S M ET AL: "Transfer of excitation energy from host ions to active dopant ions in oxide single crystals, glasses, and fluorides"</p> <p>PROCEEDINGS OF THE SPIE - THE INTERNATIONAL SOCIETY FOR OPTICAL ENGINEERING SPIE-INT. SOC. OPT. ENG USA, vol . 4237, 1999, pages 31-38, XP002356836</p> <p>ISSN: 0277-786X</p> <p>figure 1</p>	1-25
Y	<p>us 5 893 999 A (TAMATANI ET AL)</p> <p>13 April 1999 (1999-04-13)</p> <p>abstract</p> <p>column 3, lines 15-31</p> <p>column 4, lines 25-36,42-46</p> <p>column 5, lines 10-16</p> <p>* column 5, line 60 - column 6, line 32 *</p> <p>examples 2,7,9-14</p>	1,4,8-12
Y	<p>RODNYI P A ET AL: "The observation of photon cascade emission in Pr³⁺-doped compounds under X-ray excitation"</p> <p>OPTICS COMMUNICATIONS, NORTH-HOLLAND PUBLISHING CO. AMSTERDAM, NL, vol . 204, no. 1-6, 1 April 2002 (2002-04-01), pages 237-245 , XP004347598</p> <p>ISSN: 0030-4018</p> <p>figure 2</p>	8, 10, 12, 21, 23, 24
Y	<p>us 2002/103517 A1 (WEST JENNIFER L ET AL)</p> <p>1 August 2002 (2002-08-01)</p> <p>cited in the application paragraphs '0019! , '0021 !-'0027! , '0059! , '0064! , '0066! , '0071 !-'0076! , '0100!- '0137! , '0146 !- 0151 ! , '0157! , '165!-0170 ! , '0173! , '0206 !</p> <p>examples 2-5,8</p>	1,2, 13-25

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	<p>US 2002/127224 A1 (CHEN JAMES) 12 September 2002 (2002-09-12) paragraphs '0031! - '0037! paragraphs '0039! - '0045! paragraphs '0058! - '0065! paragraphs '0069! - '0076! paragraphs '0098! - '0102!, '0104!, '0105! figures 1-3 paragraphs '0109! - '0114!</p>	1,2,13, 14,25
A	<p>WO 01/91808 A (THE BOARD OF REGENTS FOR OKLAHOMA STATE UNIVERSITY) 6 December 2001 (2001-12-06) abstract</p>	1,2,13, 14,25
A	<p>WO 03/047633 A (NANOSPECTRA BIOSCIENCES, INC) 12 June 2003 (2003-06-12) abstract * page 6, line 15 - page 12, line 22 ; figures 1-5 * * page 15, line 18 - page 16, line 24 * * page 18, line 13 - page 19, line 18 * claims</p>	1,2,13, 14,25
A	<p>US 6 585 676 B1 (LARCOM LYNDON L ET AL) 1 July 2003 (2003-07-01) abstract column 2, lines 5-22</p>	1,2,13, 14,25

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

- 1 ☒ Claims Nos.
because they relate to subject matter not required to be searched by this Authority, namely

Although claim 25 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
- 2 ☐ Claims Nos :
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
- 3 ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 64(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims, it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest
- ☐ No protest accompanied the payment of additional search fees

INTERNATIONAL SEARCH REPORT

^(information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0186299 A	15-11-2001	AU 5835801 A	20-11-2001
		CA 2407899 A1	15-11-2001
		EP 1282824 A2	12-02-2003
		JP 2003532898 T	05-11-2003
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		JP 7083927 A	31-03-1995
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WO 0191808 A	06-12-2001	AU 7507801 A	11-12-2001
		EP 1286705 A2	05-03-2003
		JP 2003535063 T	25-11-2003
WO 03047633 A	12-06-2003	AU 2002365603 A1	17-06-2003
		EP 1453546 A2	08-09-2004
us 6585676 B1	01-07-2003	US 2004137418 A1	15-07-2004